sher	ISBN - 9780618888320 Publisher - McDougal Littell, a division of Houghton M Company					iton Miffli	in				
Publisher	McDougal Littell, Biology Kentucky Pupil Edition										
Provided by the	Type - P1 Author - Nowicki, Stephan						2				
led by	Copyr	ight - 2008	Edition - 1st	t		Readabi	lity -	Fry 9.49			<u> </u>
Provic	Cours	e - Biology				Grade(s	) -	9, 10, 11,	12		
_	Teach	ner Edition ISBN	I if applicable						9780618	3888337	
	Overall Recommendation:    Recommended as Basal   Overall Strengths, Weaknesses, Comments:										
	This Biology text is a special "Kentucky" edition. Every section in the textbook is alligned with Kentucky standards. Each page has "Kentucky Standards-Based Assessment" with CATS-type assessments. The book is easy to read and has vivid photographs.										
-	CRITERIA This basal resource  A. Encompasses KY Content Standards & Grade Level Expectations  Strong Evidence Moderate Evidence										
<u>L</u>	☐ Little or No Evidence ☐ Text is designed to be used in an elective course outside the Program of Studies										
	1) Inc	ludes the 7 Bi	g Ideas of sc	ience to the f	followi	ng exte	nt:				
	a)	Structure and	Transformatio	on of Matter			Stror	ng 🔲 Mode	rate 🔲 L	ittle N/	Α
	b)	Motion and Fo	orces				Stron	ng 🗌 Mode	rate 🗌 L	ittle 🔀 N/	Α
	c)	The Earth and	I the Universe				☐ Stror	ng 🔲 Mode	rate 🔲 L	ittle 🛚 N/	A
	d)	Unity and Dive	ersity				⊠ Stror	ng 🔲 Mode	rate 🔲 L	ittle   N/	A
	e)	Biological Cha	ange				Stror	ng 🔲 Mode	rate 🗌 L	ittle 🔲 N/	A
	f)	Energy Transf	ormation				Ctuan	a 🗆 Modo	rata 🖂 I	ittle N/	Α
		Interdepender					X Stror	ig 🔲 Mode	iale L		
	g)	interacpender	nce					ng		ittle 🔲 N/	A
	2) Ad un	dresses conte derstandings f indards.	nt-specific e		of Stu		⊠ Stror		rate 🔲 L		

the related Program of Studies standards. 4) Content addressed is current, relevant and non-trivial 5) Provides opportunities for critical thinking/reasoning 6) Strengths, Weaknesses, Comments: • Specific strengths-which areas/concepts are covered exceptionally well? • Specific weaknesses-which areas/concepts would likely require supplementing? a) Chapter 2 Cell chemistry chapter and periodic table. No boiling point, but appropriate for biochemistry. f) Does not contain wave behavior or nuclear reactions, but discusses energy as appropriate to biochemistry. Every section has critical thinking questions, labeled as synthesis, analysis, etc... Every chapter has "Kentucky Standards-Based Assessment" page. B. Functionality & Suitability **Strong Evidence Moderate Evidence** Little or No Evidence 1) Suitability Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind. 2) Content quality Free from factual errors Content is presented conceptually when possible—more than a mere collection of facts Content included accurately represents the knowledge base of the discipline Theories/scientific models contained represent a broad consensus of the scientific community 3) Connections to Literacy Note: may apply to either student or teacher editions • Employs a variety of reading levels and is grade/level appropriate • Contains pre, during, post reading activities Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles. Student text provides opportunity to integrate reading and writing • Uses vocabulary that is age and content appropriate Focuses on critical vocabulary vs. extensive lists Identifies key vocabulary through definitions in both text and glossary Engaging text- does the text facilitate learning? Does understanding the text require having performed the imbedded activities? 4) Connections to Technology 

- Integrates technology and reflects the impact of technological advances
- Uses technology in the collection and/or manipulation of authentic data

## 5) Support for Diverse Learners

- Provides support for ESL students
- Provides support for differentiation of instruction in diverse classrooms Note: may apply only to teacher edition

## 6) Strengths, Weaknesses, Comments:

 Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Has activities for below-level readers and higher functioning students. Each chapter has key concepts, main ideas, vocabulary and review, assessment questions. The end of every chapter has an interactive review. On-line links are provided to see animated science illustrations. Webquests are included in the book and on the website. Data analysis is provided online.

C. Supports Inquiry and Skill Development	Strong Evidence Moderate Evidence Little or No Evidence
1) Promotes Inquiry, research and Application of Learning	Strong Moderate Little

## 1) Promotes Inquiry, research and Application of Learning

- Provides opportunities for inquiry and research that includes activities such as self-selecting topics, formulating authentic questions, gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, time lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning. Note: may apply to either teacher or student edition

## 2) Skill Development

Strong	Moderate		Little
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- Provides opportunities to make sense of data
- Provides opportunities for critical thinking and reasoning (analyze arguments, distinguish fact/opinion, recognize bias)
- Provides opportunities to examine a range of types of evidence
- Contains embedded activities (or extensions) that emphasize use of technology for problem

Note: may apply to either teacher or student edition

#### 3) Strengths, Weaknesses, Comments:

Design your own investigation, p. 684. Each chapter begins question and attention-grabbing, vivid, relevant photograph student text that require inquiry and student application skil there are virtual labs, animated biology and webquest that slearning.	. Investigations in the lls. At classzone.com,		
D. Supports Best Practices of Teaching and Learning	Strong Evidence Moderate Evidence Little or No Evidence		
1) Engages Students			
<ul> <li>Includes content geared to the needs, interests, and abilities of sexperiments, and data gathering.</li> <li>Includes information and activities that assist students in seeing appropriate) to their own lives and experiences</li> <li>Provides a variety of strategies, activities, and materials to enhal appropriate learning levels</li> <li>Activities are truly congruent to the concepts addressed, not me Note: may apply to either teacher or student edition</li> </ul>	al-life situations, simulations, relevance of concepts (where ince student learning at the		
2) Uses Assessment to Inform Instruction			
<ul> <li>Includes multiple means of assessment as an integral part of ins</li> <li>Provides evaluation measures in the teacher edition that suppor</li> <li>Embedded assessments reflect a variety of Depth of Knowledge Note: may apply to either teacher or student edition</li> </ul>	ts differentiated learning activities		
<ul> <li>Strengths, Weaknesses, Comments:</li> <li>Reviewers may provide page numbers to point out specific stror evaluation standards</li> </ul>	ng examples for individual		
Engaging text with a variety of strategies and materials to e Edition has "Activate Prior Knowledge". Each chapter provid methods, including "interactive review", chapter assessment based assessment", "critical thinking", analyze a diagram, o	les multiple assessment t, "Kentucky standards-		
E. Has an Organization/ Format that Supports Learning and Teaching	<ul><li>Strong Evidence</li><li>Moderate Evidence</li><li>Little or No Evidence</li></ul>		
1) Organizational Quality	Strong		

- Print and/or electronic materials present minimal barriers to learners
   Presents chapters/lessons in an organized and logical sequence

- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer software, web-based components) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards.
- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size

Included media are durable, easy to use and have technical merit

• Construction appears to be durable and able to withstand normal use

 Items identified as essential components support the learning goals and concept coverage of the basal

## 3) Strengths, Weaknesses, Comments:

 Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Vocabulary words in bold and yellow highlight. Interesting graphics and photos are throughout the book. Kentucky standards identified in each section. Attention-grabbing photos at the beginning of each chapter. Extinsive use of SEM and TEM photographs in text. 2) no essential components beyond the 2 texts.

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Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F

⊠ Strong Evidence
Little or No Evidence

## 1) Ancillary/Gratis Materials

- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving

## 2) Strengths, Weaknesses, Comments:

 Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

There is an online version of the Pupil Edition and a Spanish version. Also, an Assessment Book.